



HYDA CON
Innovative chemical solutions

Technical Data Sheet

HYDAPOXY AMAZE
ORNAMENTAL EPOXY GROUT FOR JOINTS

ABOUT HYDAPOXY AMAZE

HYDAPOXY AMAZE is a stain-free, high-performance epoxy grout designed for interior and covered exterior applications on floors and walls. Its advanced formulation ensures exceptional durability, hygienic performance, and long-lasting colour brilliance in both residential and commercial environments. With superior resistance to chemicals, temperature fluctuations, water, and microbial growth, **HYDAPOXY AMAZE** is ideal for aesthetic and performance-critical installations.

HYDAPOXY AMAZE complies with **ANSI A118.3** and **ISO 13007-3 (RG) / EN 13888**, offering premium protection against stains, fading, and degradation in wet and hygienically sensitive areas.

This anti-bacterial, anti-fungal grout is perfect for high-traffic zones, wet environments, and chemically aggressive settings. Its non-cracking and non-powdering properties make it an excellent solution for both floor and wall joints, including vertical installations and submerged conditions. Available in Gold, Silver, and Copper metallic variants, it enhances the visual appeal of any tiled surface.

SURFACE APPLICATION MATERIALS

- Marble & Granite
- Agglomerates (Engineered Stones)
- Vitrified & Ceramic Tiles
- Precast Terrazzo Tiles
- Glass Mosaic Tiles
- Natural Stones
- Metal Tiles
- Walls & Floors
- Decorative & Specialty Tiles

APPLICATION AREAS

- Swimming Pools, Water Bodies & Saunas
- Interior & Covered Exterior Walls and Floors
- Schools & Recreational Areas
- Institutional Spaces & Restrooms
- Residential Wet Areas (Bathrooms, Washrooms)
- Commercial Kitchens, Cafeterias & Food Courts

- Industrial Facilities – Dairies, Breweries, Meat Packing Units, and CIP Rooms
- Food & Beverage Plants – Soft Drink Units, Confectioneries, Mineral Water Plants
- Pharmaceutical Labs & Processing Areas

PRODUCT HIGHLIGHTS

- ❖ **STAIN-FREE PERFORMANCE** – Preserves original colour and finish with outstanding stain resistance
- ❖ **CHEMICAL & TEMPERATURE RESISTANT** – Resilient against aggressive cleaners and extreme temperature variations
- ❖ **EASY TO CLEAN** – Smooth, non-porous surface resists dirt and simplifies maintenance
- ❖ **ANTI-BACTERIAL & ANTI-FUNGAL** – Engineered for hygiene-sensitive environments such as food processing areas
- ❖ **WATER & SHOCK RESISTANT** – Durable in wet zones and capable of withstanding heavy mechanical impact
- ❖ **NON-CRACKING / NON-POWDERING** – Retains integrity under stress, ensuring long-term durability
- ❖ **COLOUR-FASTNESS** – Maintains colour brilliance and resists fading from UV exposure
- ❖ **DECORATIVE METALLIC FINISH** – Available in Gold, Silver, and Copper variants for a luxurious finish

TECHNICAL DETAILS

ANSI DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY AMAZE VALUES
Water Cleanability	ANSI A118.3 – Cl. 5.1	> 80 Minutes	95 – 125 Minutes
Initial Setting Time	ANSI A118.3 – Cl. 5.2	> 120 Minutes	205 – 265 Minutes
Service Setting Time	ANSI A118.3 – Cl. 5.2	≤ 7 Days	50 – 74 Hours
Shrinkage after 7 Days	ANSI A118.3 – Cl. 5.3	< 0.25%	< 0.15%
Sag in Vertical Joints	ANSI A118.3 – Cl. 5.4	No change in shape of joint	Pass – No change in shape of joint
Bond Strength to Quarry Tile	ANSI A118.3 – Cl. 5.5	> 1000 psi (6.87 MPa)	> 1105 psi (7.62 MPa)
Compressive Strength after 7 Days	ANSI A118.3 – Cl. 5.6	> 3500 psi (24.06 MPa)	7505 – 8205 psi (51.59 – 56.40 MPa)
Tensile Strength after 7 Days	ANSI A118.3 – Cl. 5.7	> 1000 psi (6.87 MPa)	2305 – 2605 psi (17.27 – 19.34 MPa)
Thermal Shock Resistance	ANSI A118.3 – Cl. 5.8	> 500 psi (3.43 MPa)	1005 – 1105 psi (6.93 – 7.62 MPa)

EN / ISO DATA

PROPERTY	TEST METHOD	REQUIREMENT	HYDAPOXY AMAZE VALUES
Abrasion Resistance	ISO 13007 – 4: Cl. 4.4; EN 12808 – 2	$\leq 250 \text{ mm}^3$	Pass
Flexural Strength under standard conditions	ISO 13007 – 4: Cl. 4.1.3; EN 12808 – 3	$\geq 30 \text{ N/mm}^2$	40 – 42 N/mm ²
Compressive Strength under standard conditions	ISO 13007 – 4: Cl. 4.1.4; EN 12808 – 4	$\geq 45 \text{ N/mm}^2$	57 – 59 N/mm ²
Shrinkage	ISO 13007 – 4: Cl. 4.3; EN 12808 – 4	$< 1.5 \text{ mm/m}$	0.8 – 1.0 mm/m
Water Absorption after 240 Minutes	ISO 13007 – 4: Cl. 4.2; EN 12808 – 5	$\leq 0.1 \text{ g}$	0.017 – 0.042 g

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION GUIDELINES

1. CLEAN & PREPARE JOINTS

Ensure all joints are free from dust, debris, or standing water, free from moist. Lightly sponge the tile surface to remove any remaining contaminants.

Note: Do not use acid cleaners. If acid was used previously, rinse thoroughly with clean water before commencing grouting.

2. INSPECT TILE/STONE SURFACE

Conduct a sample patch test with **HYDAPOXY AMAZE** on the actual tile or stone to check for any colour ingress or staining—especially on porous or absorbent materials like marble, certain stones, or unglazed tiles.

3. MOVEMENT JOINT PROVISION

Provide movement joints as per TCA Detail EJ 171 guidelines. Fill such joints using a flexible grout or sealant.

Note: HYDAPOXY AMAZE is a solid epoxy grout and does not accommodate substrate or tile movement.

Failure to provide adequate joints may lead to cracks or grout breakage.

4. PROTECT THE WORK AREA

When applied in open areas such as swimming pools, saunas, or sun-exposed exteriors, cover the working area to shield from direct sunlight.

Maintain cover for 7 days after grouting and delay water-filling until the curing period is complete..

HOW TO MIX HYDAPOXY AMAZE

- 1. COMPONENT COMPOSITION** – HYDAPOXY AMAZE is supplied as a pre-measured kit consisting of:

- Part A: Hardener
- Part B: Resin
- Part C: Filler Powder

Available in Gold, Silver, and Copper colour variants.

2. **MIXING PROCESS** – Empty the full contents of Part A **and** Part B into a clean mixing pail. Mix thoroughly using a margin trowel or a slow-speed drill mixer until fully blended into a uniform liquid.
3. **ADDING FILLER** – Gradually add at least $\frac{3}{4}$ of Part C (filler powder) into the liquid mix. Blend until smooth. Add the remaining Part C and mix to form a stiff paste suitable for joint packing.
4. **READY FOR APPLICATION** – Immediately pour the mixed grout onto the working area. Use a plastic sheet underneath to protect surfaces. Apply using standard epoxy grouting techniques or a caulking gun. Ensure all joints are fully packed with **HYDAPOXY AMAZE**. Remove excess grout with a float before the material begins to harden. Avoid leaving excess material on tile faces.

CLEANING

- **REMOVE EXCESS GROUT** – Use the edge of the grout float to remove excess grout from the tile surface. Hold the float at a 90° angle and pull it diagonally across the joints to avoid pulling out the grout.
- **INITIAL CLEANING** – After 8-15 minutes of grouting, scrub the tile surface and joints with clean water and the provided scrubber to remove excess grout. Use a clean, thick white towel to drag across the tile and remove any remaining residue.
- **FINAL CLEANING** – Within 3 hours, perform a second cleaning using normal soap detergent to remove any haze from the tile.

STEP-BY-STEP TILE APPLICATION GUIDE

1. SURFACE PREPARATION

- Clean all tiles and grout joints thoroughly to remove dust, dirt, moist and debris.
- Do not use acid cleaners before grouting. If acid cleaners were used, ensure to rinse the area well with water before starting the grouting process.
- Lightly dampen the tile surface with a sponge to remove dust and debris before grouting.
- Make sure that the substrate temperature is between 16°C – 32°C (60°F – 90°F) before starting the application.

2. TILE PLACEMENT

- Firmly place tiles over the adhesive bed, ensuring even spacing.
- Use tile spacers or proper alignment tools to maintain a consistent joint width.
- Ensure the tiles are correctly bedded, with no lippage or uneven edges, for a smooth grout finish.

3. ACHIEVING FULL ADHESION

- Apply the mixed HYDAPOXY AMAZE epoxy grout into the joints using a grout float or caulking gun.
- Press the grout firmly into the joints to ensure they are completely filled.

- Avoid leaving any voids or air pockets in the joints.
- Remove any excess grout from the tile surface immediately after application to avoid grout haze.

4. SPACING & CLEANING

- Maintain consistent spacing between tiles for uniform grout lines.
- After 8–10 minutes, scrub the surface with clean water and the provided scrubber to remove any excess grout.
- Wipe the tile surface clean with a dry, thick white towel.
- Perform a final cleaning within 3 hours using mild soap and water to remove any haze from the tile surface.

5. SPECIAL CONSIDERATIONS

- Protect grouted areas from direct sunlight, especially in open areas such as swimming pools and terraces.
- After grouting, cover pool surfaces for 7 days before filling with water.
- Movement joints should be planned and filled with flexible sealants, as HYDAPOXY AMAZE grout does not accommodate movement.
- HYDAPOXY AMAZE is not recommended for soft, polished marble or highly absorbent tiles without performing a small test.
- Avoid using strong acids or heavy cleaners for at least 7 days after the grout has been applied.

PRO TIPS & PRECAUTIONS

- ✓ Protect freshly grouted surfaces from direct sunlight, rain, and foot traffic for at least 24 hours. In open areas like terraces or swimming pools, cover the grouted area and only fill with water after 7 days.
- ✓ Do not mix cement or sand with the grout. Use only the components provided in the HYDAPOXY AMAZE kit to ensure optimal performance.
- ✓ Always mix the grout in the correct order: First, thoroughly mix Parts A and B together, then gradually add Part C (filler powder) to achieve the desired consistency.
- ✓ Apply the grout only on dry, cured substrates. Ensure the surface temperature is between 16°C and 32°C.
- ✓ Avoid using grout to level surfaces with deep irregularities (greater than 15 mm).
- ✓ Test a small area before full application, especially when working with natural or highly absorbent tiles to prevent staining.
- ✓ Remove excess grout immediately using proper tools to avoid leaving grout residue on tile surfaces.
- ✓ Do not use acidic cleaners. If acids were used earlier, ensure thorough rinsing before starting the grouting process. After grouting, only use neutral or tile-safe cleaners.
- ✓ Always include movement joints as per the relevant standards and fill them with flexible sealants.
- ✓ Allow at least 10 days for full chemical resistance to be achieved. Avoid using harsh cleaners during this curing period.

PRODUCT SPECIFICATIONS & STORAGE GUIDELINES

AVAILABLE PACKAGING

HYDAPOXY AMAZE is a factory-proportioned kit consisting of:

- Part A (Hardener)
- Part B (Resin)
- Part C (Filler powder)

UNIT NET WEIGHT:

- 1.0 kg
- 5.0 kg

COLOUR OPTIONS

Available in a wide range of colours, with variants in:

- Gold
- Silver
- Copper

SHELF LIFE

24 months from the manufacturing date when stored properly in original sealed containers.

STORAGE LIFE

- Store between 10°C and 35°C
- Keep containers tightly sealed when not in use
- Discard product if packaging is damaged or contents have hardened.
- Keep away from:
 1. Direct sunlight
 2. High humidity or moisture
 3. Extreme cold or heat (<5°C or >35°C)

GROUTING INSTRUCTIONS

1. **WAITING TIME:** Begin grouting only after ensuring tile/stone is properly installed and free from surface contaminants.
2. **RECOMMENDED PRODUCTS:**
Use HYDAPOXY AMAZE Part C Filler Powder for optimal finish.
3. **APPLICATION TIP:**
 - Always perform a small test area with actual tile/stone.
 - Ensure tiles are dust-free and surface is dry.
 - Avoid applying grout on absorbent tiles without testing for discoloration.
 - Use standard epoxy grouting techniques or a caulking gun for application.
 - Protect freshly applied grout in open areas from direct sunlight for 7 days.

COVERAGE DETAILS

Coverage varies with tile size, joint width, joint depth, and surface texture.

FACTORS AFFECTING COVERAGE:

- Tile size and joint width
- Surface smoothness and porosity
- Grouting method (float or gun)
- Quantity of filler powder used in mix.

SAFETY & APPLICATION GUIDELINES FOR HYDAPOXY AMAZE

1. PERSONAL PROTECTION

- Wear protective gloves, clothing, and eye/face protection while handling.
- Keep out of reach of children at all times.
- For professional use only – not for consumer DIY applications.

2. EMERGENCY PROCEDURES

- Skin Contact: Wash immediately with plenty of clean water.
- Eye Contact: Rinse thoroughly with water for 15 minutes and seek medical attention.
- Inhalation/Ingestion: Seek immediate medical help if accidentally inhaled or ingested

3. MIXING INSTRUCTIONS

- Empty entire contents of HYDAPOXY AMAZE Part A (Hardener) and Part B (Resin) into a clean container
- Mix thoroughly using a margin trowel or slow-speed drill mixer until liquids are completely blended
- Add at least $\frac{3}{4}$ of HYDAPOXY AMAZE Part C (Filler Powder) and mix to a smooth consistency
- Add the remaining filler powder and mix to achieve a stiff, uniform blend
- Pour contents immediately onto the working area after mixing
- Use a plastic sheet as a drop cloth to avoid contamination

4. SURFACE PREPARATION

- Ensure tile joints are clean, free from debris, and lightly sponged to remove dust
- Do not use acid cleaners prior to application – if used, rinse thoroughly with plenty of clean water
- Tile surface must be free of dust and dirt before grouting
- Substrate temperature should be between 16°C – 32°C (60°F – 90°F)
- Not suitable for highly absorbent tiles unless pre-tested – color staining/discoloration may occur

5. INSTALLATION & PROTECTION

- Apply grout using standard epoxy grouting techniques or a caulking gun
- Ensure all joints are completely packed with HYDAPOXY AMAZE
- Remove as much excess grout as possible before initial cleaning
- Initial Cleaning: After 8–15 minutes of application, scrub the surface with clean water and the provided scrubber
- Final Cleaning: Within 24 hours, clean with a neutral pH detergent to remove any haze
- Protect from sunlight during application in open/exterior areas (e.g., swimming pools)
- In exposed areas, cover the grouted surface for 7 days and delay pool filling until complete curing is achieved

MAINTENANCE

- Clean regularly using neutral pH soap and water.
- For best results, use HYDACLEAN Series cleaners.
- Proper routine maintenance ensures lasting durability and appearance of HYDAPOXY AMAZE.

PERFORMANCE LIMITATIONS

- Not recommended for soft, polished marble or delicate glazed tiles
- Movement joints are required to accommodate tile/stone expansion and prevent grout cracking
- This product is a solid epoxy grout and not a replacement for a dedicated waterproofing system – use a suitable waterproofing membrane in areas where moisture protection is required
- Light colors may darken slightly with prolonged UV exposure
- Maximum stain resistance is achieved 7 days after installation – protect from acids and harsh cleaners during this curing period

End of TDS